Worksheet - Accuracy, Precision, Percent error, Significant figures, Rounding

Name_____
Period _____
Date_____

1. Determine the number of significant figures in each measurement.
   a. 340,438 g _____
   b. 87,000 ms _____
   c. 4,080 kg _____
   d. 961,083,110 m _____
   e. 1.040 s _____
   f. 0.0483 m _____
   g. 0.2080 mL _____
   h. 0.0000481 g _____

2. Round the following numbers to three significant figures.
   a. 0.0030850 km _____
   b. 3.0823 g _____
   c. 5808 mL _____
   d. 34.654 mg _____

3. Write each of the following in scientific notation.
   a. 0.005832 g _____
   b. 386,808 ms _____
   c. 0.0005800 km _____
   d. 2086 L _____

4. Use rounding rules when you complete the following.
   a. 34.3 m + 35.8 m + 33.7 m = _____
   b. 0.056 kg + 0.0783 kg + 0.0323 kg = _____
   c. 309.1 mL + 158.02 mL + 238.1 mL = _____
   d. 1.03 mg + 2.58 mg + 4.385 mg = _____
   e. 8.376 km - 6.153 km = _____
   f. 34.24 s - 12.4 s = _____
   g. 804.9 L - 342.0 L = _____
   h. 6.38×10^2 m - 1.57×10^2 m = _____

5. Complete the following calculations. Round off the answers to the correct number of significant figures.
   a. 34.3 cm x 12 cm =_____
   b. 0.054 mm x 0.3804 mm =_____
   c. 45.1 km x 13.4 km = _____
   d. 45.5 g / 15.5 mL = _____
   e. 35.43 g / 24.84 mL = _____
   f. 0.0482 g / 0.003146 mL = _____